



Application No. 09/715,690
Reply to Notice Of Allowance of April 22, 2004
Replacement Sheet

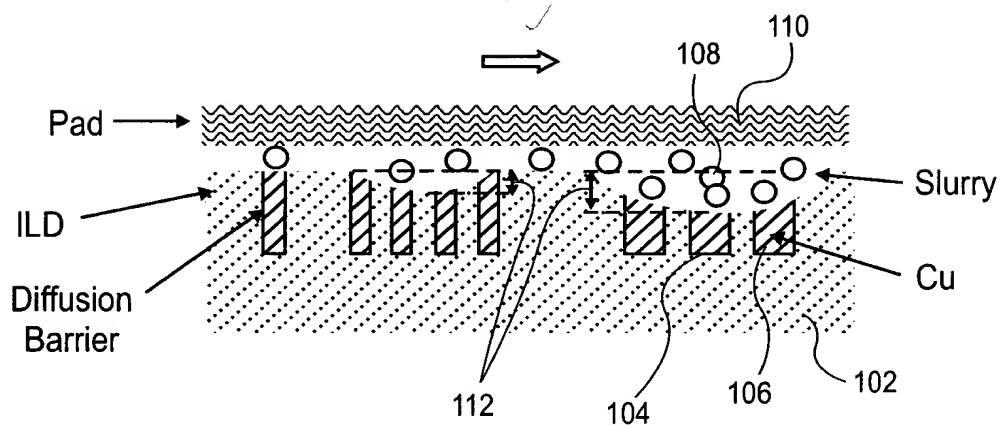


FIG. 1

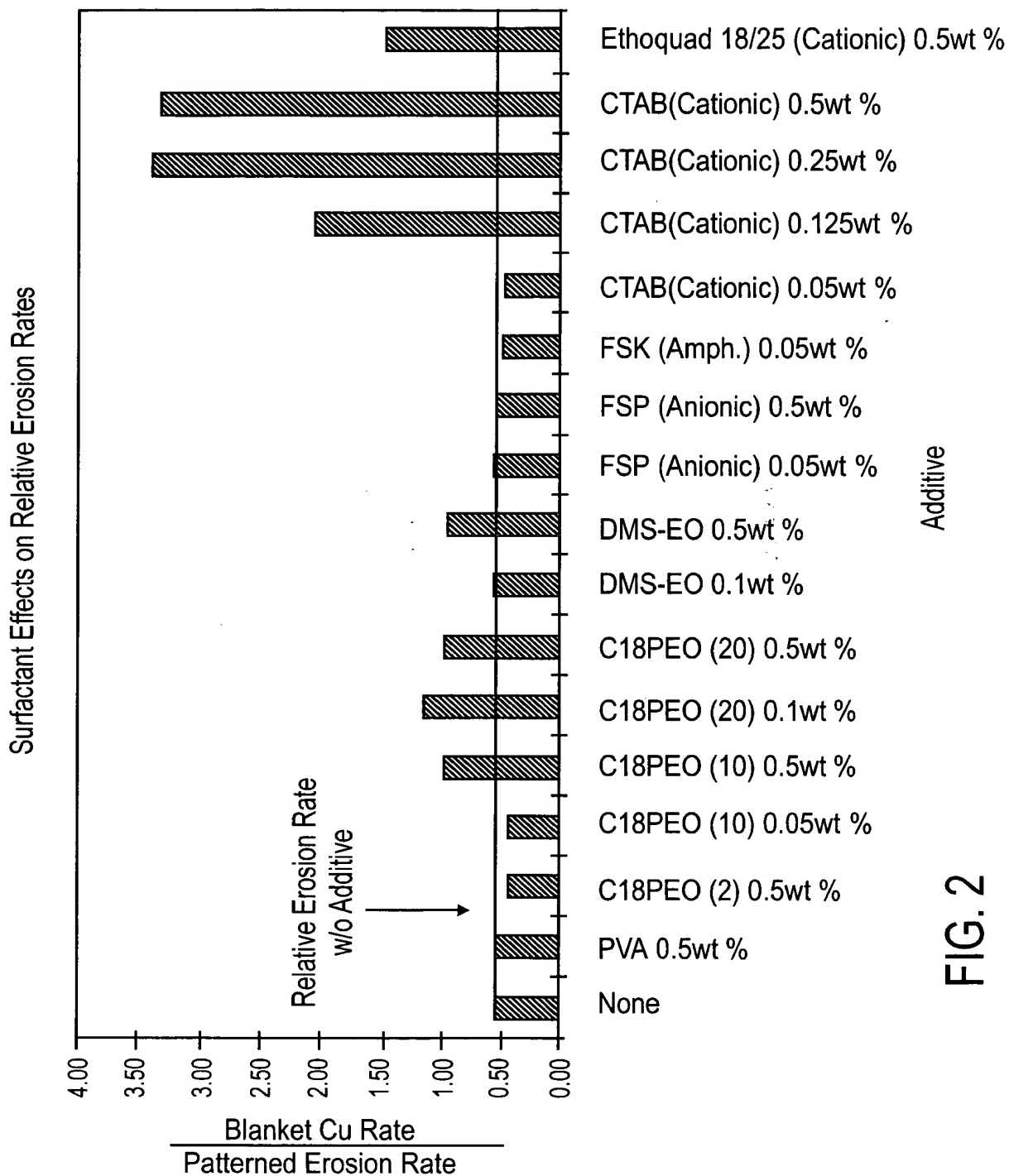


FIG. 2

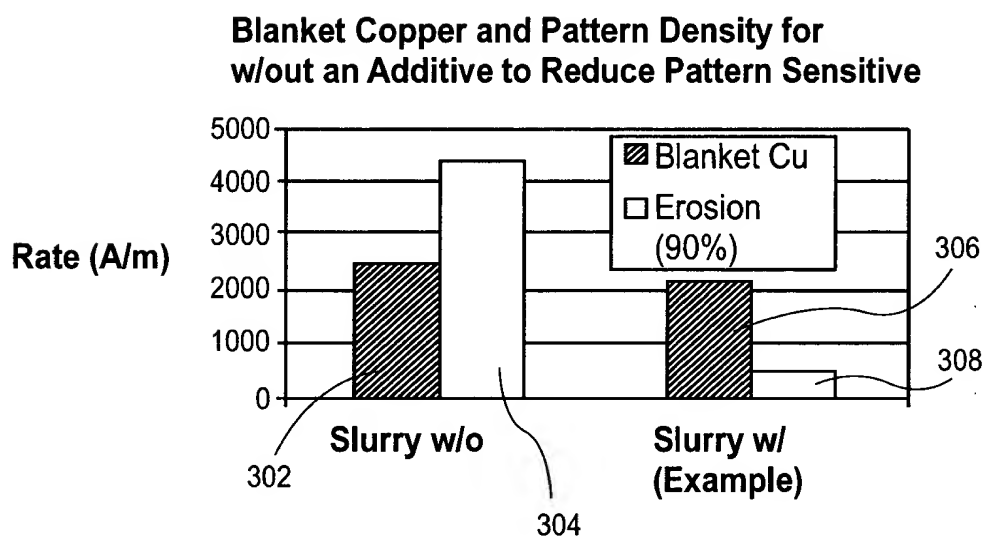


FIG. 3

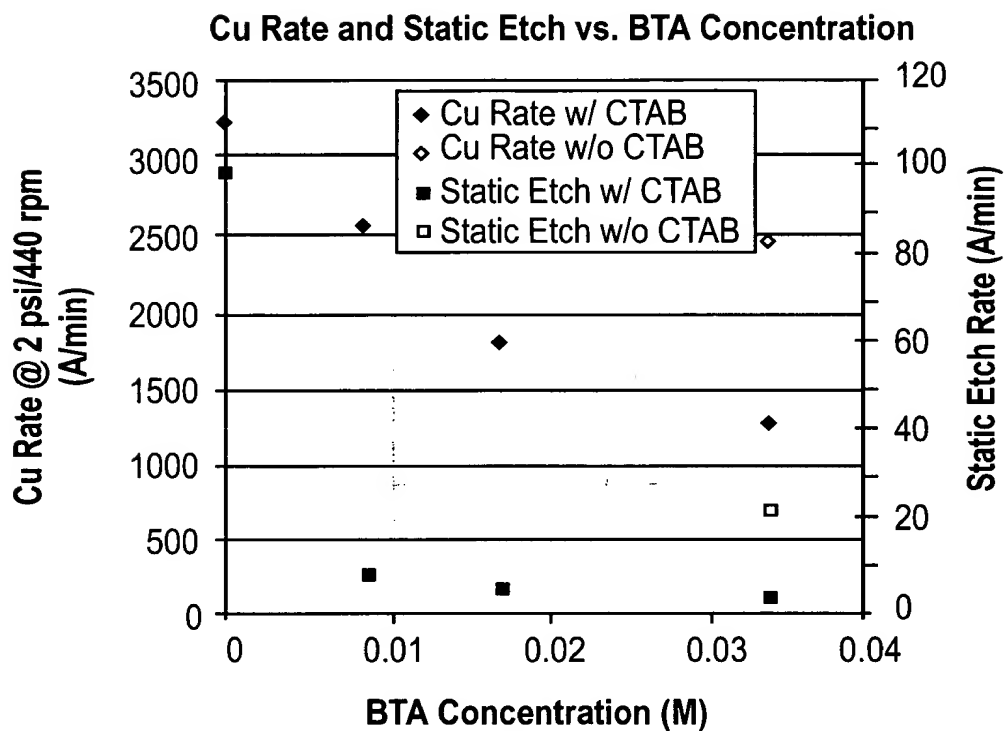


FIG. 4

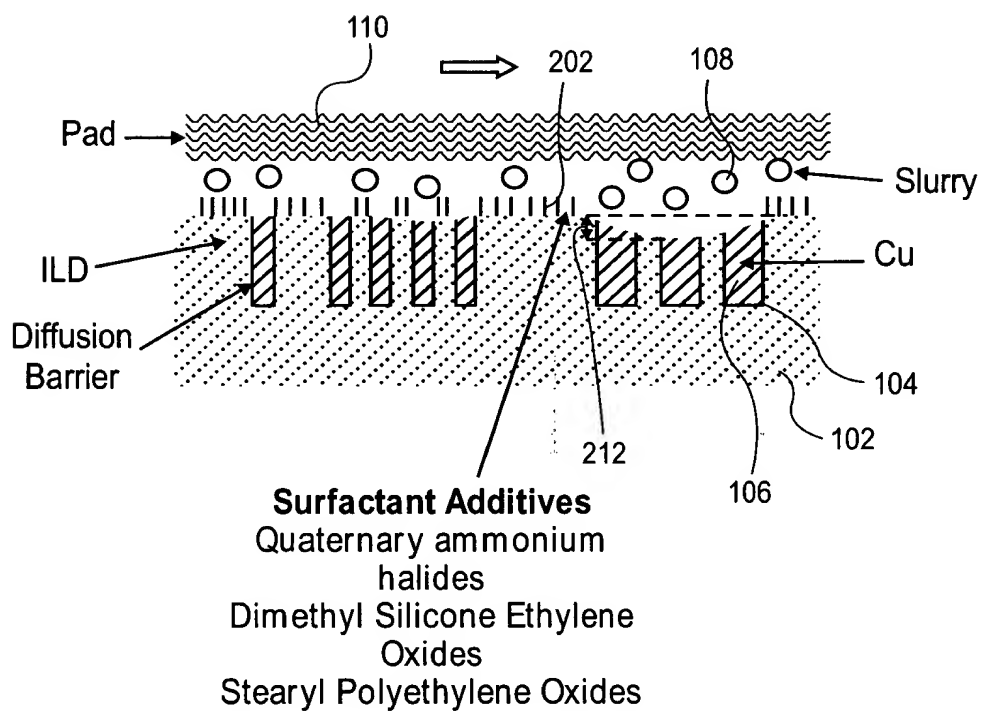


FIG. 5

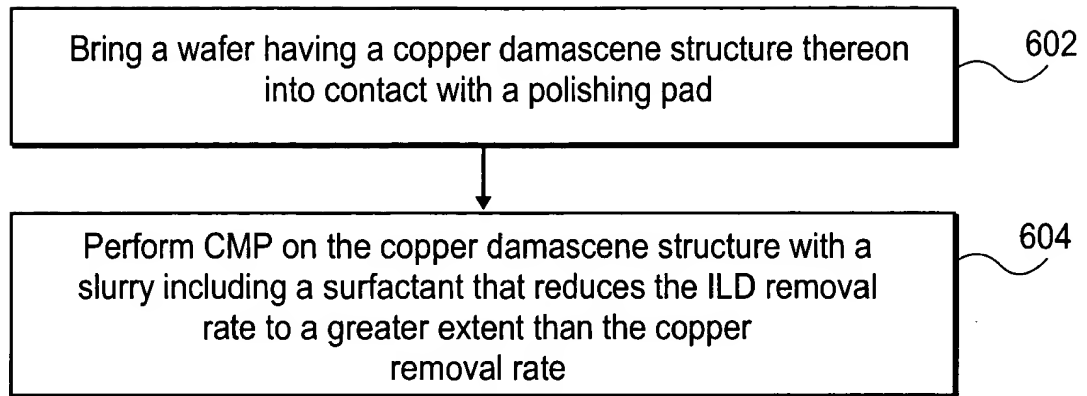


FIG. 6

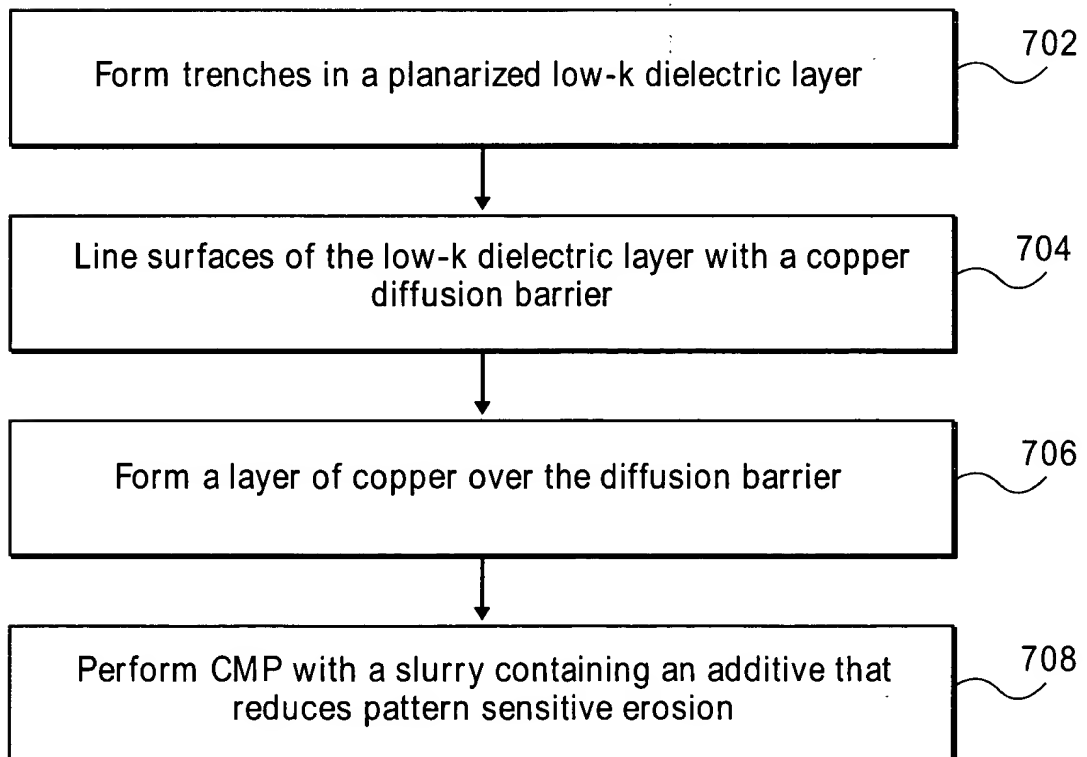


FIG. 7

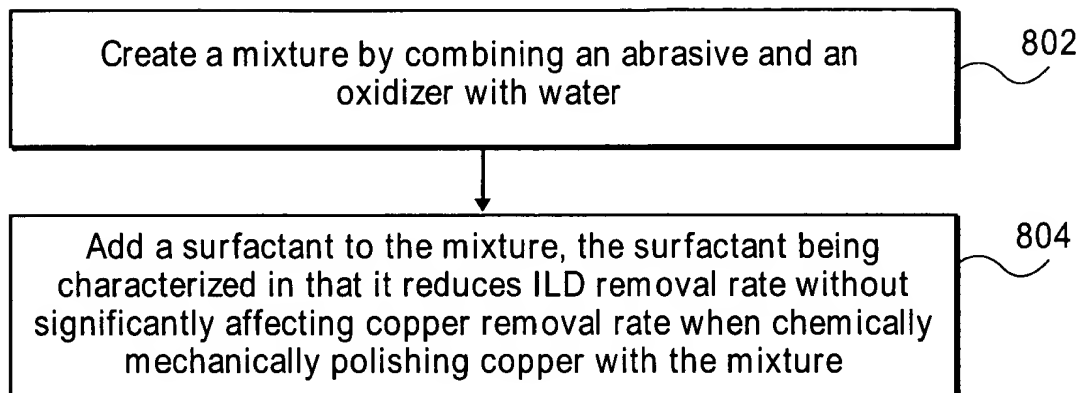


FIG. 8

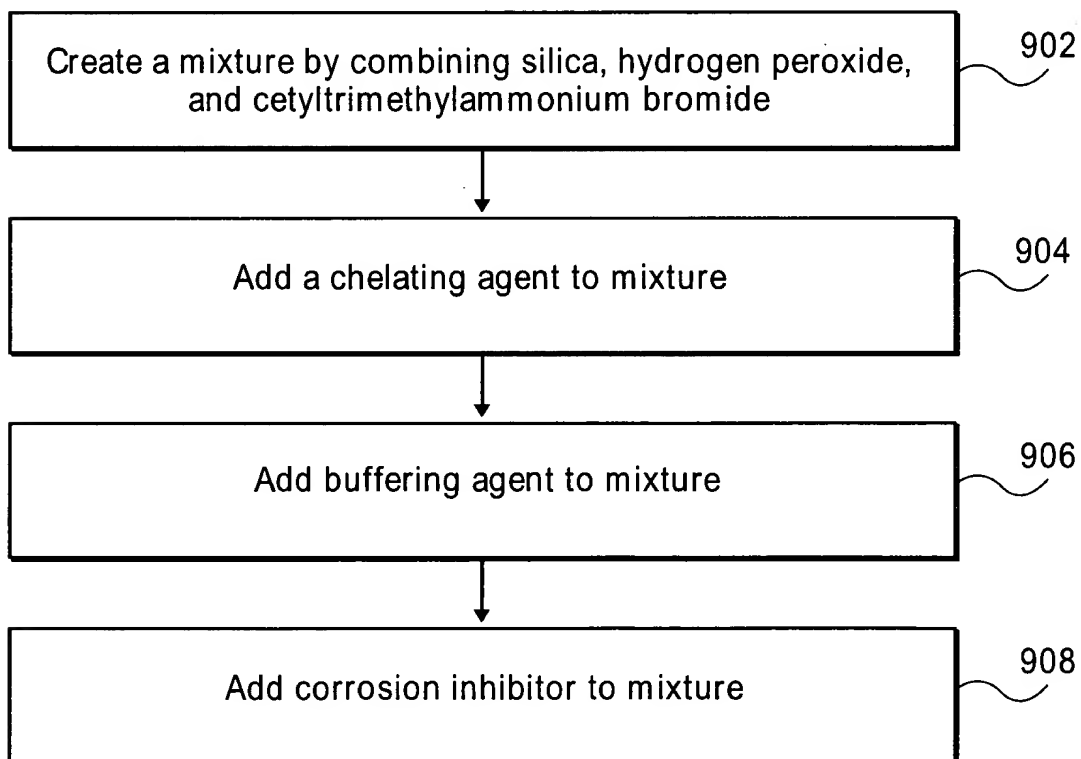
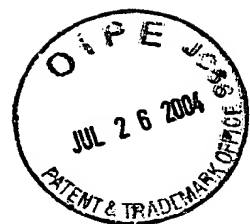


FIG. 9



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Abbreviation	Name	Chemical Formula	Surfactant Type	ILD Interaction Site
PVA 0.5 wt%	Polyvinylalcohol	$[-CH_2CH(OH)](MW=85,000-146,000)$	nonionic	Si-O-Si, OH
C18PEO(2)	Polyoxyethylene(2)stearyl ether	$C_{18}H_{37}(OCH_2CH_2)_2OH$	nonionic	Si-O-Si, OH
C18PEO(10)	Polyoxyethylene(10)stearyl ether	$C_{18}H_{37}(OCH_2CH_2)_{10}OH$	nonionic	Si-O-Si, OH
C18PEO(20)	Polyoxyethylene(20)stearyl ether	$C_{18}H_{37}(OCH_2CH_2)_{20}OH$	nonionic	Si-O-Si, OH
DMS-EO	Ethylene oxide modified	$Me_3SiOMeSi(O)(C_2H_5)_3(OCH_2CH_2)_xOMe][MeSiO](SiMe_3)^*$	nonionic	Si-O-Si, OH
FSP	Phosphate fluorsurfactant	$[F(CF_2CF_2)_2CH_2CH_2O]_xP(O)(ONH_4)_y$	anionic	$SiOH_2^+$
FSK	Amphoteric fluorsurfactant	$F(CF_2CF_2)_yCH_2CH_2O(CH_2CH_2)_2CH_2COO^-$	amphoteric	SiO^- , $SiOH_2^+$
CTAB	Cetyltrimethylammonium bromide	$C_{16}H_{33}N(CH_3)_3Br$	cationic	SiO^-
Ethoquad 18/25	Octadecylmethylpolyoxyethylene (15)ammonium	$RN(CH_3)[CH_2CH_2O]_{7.5}H[CH_2CH_2O]_{7.5}HCl^*$	cationic	SiO^-
K-Oleate 0.5	Potassium Oleate	$CH_3(CH_2)_7CH=CH(CH_2)_7CO_2K$	anionic	$SiOH_2^+$

* Me=CH₃, R=Hydrocarbon group, alkyl=Alkyl group

FIG. 10